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**ENDO TAKASHI
MATSUOKA KENICHI
ICHINOSE KIMIHIRO
FUTAGAWA OSAMU**(54) **CORIOLIS FLOWMETER**

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(57) Abstract:

PROBLEM TO BE SOLVED: To stabilize the accuracy of measurement by stabilizing a flow inside a straight pipe type Coriolis flowmeter having a measuring pipe supported on a support pipe through an annular diaphragm.

SOLUTION: The measuring pipe 12 composed of a straight pipe is joined to a measuring pipe support member 13 on one end side. The measuring pipe support member 13 is composed of an annular diaphragm 15 having a plane axially perpendicular to a thin cylindrical added part 14 and a support ring 16, and attached to a flange 18a on the outer periphery of the support ring 16. A tapered member 1 to continuously reduce a flow passage is inserted in a section from a flow path 10a in the connecting pipe 18 of a fitting flange 17 to the annular diaphragm 15 to stabilize the flow of fluid flowing from the flow passage 10a to the measuring pipe 12 for preventing the occurrence of separation of measured fluid and a cavitation.

